10 16

6

7

(Amended) A method of bonding [solder] balls of solder to bond pads on a substrate comprising:

placing at least portions of a plurality of [solder] balls of solder within a frame and in registered alignment with individual bond pads over a substrate; and

while the ball portions are within the frame, exposing the balls to bonding conditions effective to bond the balls with their associated bond pads.

Cancel claims 4 and 5.

(Amended) The method of [bonding solder balls of] claim wherein [said] exposing comprises laser bonding the balls with their associated bond pads.

Cancel claim 7.

20

(Amended) The method [of bonding solder balls] of claim A, wherein [said] exposing comprises laser bonding the balls with their associated bond pads by fixing the position of a laser beam and moving the frame relative to the laser beam from ball-to-ball.

Cancel claims 9 and 10.

23

2

3

5

6

7

8

9

[Amended] The method of [bonding solder balls of] claim 3, wherein: --

[said] placing comprises placing individual [solder] balls within individual holes within the frame; and

[said] exposing [of the balls] comprises reflowing the [solder] balls while the balls are within their individual holes, and further comprising, after [said] reflowing, removing the frame from around the reflowed balls.

12. (Amended) The method of [bonding solder balls of] claim 3, wherein [said] placing comprises placing [said] the ball portions on fluxless bond pad surfaces.

13

16

17

18

19

20

21

(Amended) A method of bonding [solder] balls of solder to 13.

bond pads on a substrate comprising:

providing a frame having a plurality of holes sized to receive individual solder balls;

delivering individual balls of solder into the holes from over the frame;

placing the balls into registered alignment, while the balls are in the holes, with a plurality of individual bond pads over a substrate; and bonding the balls with their individual associated bond pads.

Cancel claims 14-19.

h 3 3

20. (Amended) The method of claim_13, wherein [the] bonding [of the balls] comprises laser bonding the balls with their individual associated bond pads.

Cancel claim 21.

(Amended) The method of claim 13, wherein [the] bonding [of the balls] comprises laser bonding the balls with their individual associated bond pads by fixing the position of a laser beam and moving the frame relative to the laser beam from ball-to-ball to effectuate the bonding.

Cancel claim 25.

27. (Amended) A method of bonding a [solder] ball of solder to a bond pad on a substrate comprising:

providing a frame having a hole;

providing a [solder] ball of solder having an outer surface;

retaining the [solder] ball of solder within the hole in an ambient processing environment which is generally uniform over the entirety of the ball's outer surface; and

while the [solder] ball of solder is within the hole, bonding the [solder] ball of solder with an associated bond pad on a substrate.

Cancel claim 28.

30. (Amended) The method of claim 27, wherein [the] bonding [of the solder ball] comprises laser bonding [said] the ball.

(Amended) A method of bonding [solder] balls of solder to bond pads on a substrate comprising: providing a surface having a plurality of holes therein; providing a plurality of [solder] balls of solder over the surface; depositing some of the [solder] balls of solder into at least some of the holes; and bonding the [solder] balls of solder which were deposited into the 7 holes to individual associated bond pads positioned on a substrate 8 proximate the holes. 9 10 Cancel claims 32-35. 11 (Amended) The method of claim 31, wherein [the] bonding 36. 13 [of the balls] comprises laser-bonding each ball to an individual bond 15 pad. 16 (Amended) The method of claim 31, wherein [the] bonding 37. 17 [of the balls] comprises laser-bonding each ball to an individual bond pad by fixing the position of a laser beam and moving each ball into 19 the path of the laser beam. 20 21

22

41. (Amended) [The method of claim 39] A method of bonding balls of solder to bond pads on a substrate comprising:

providing a surface having a plurality of holes therein;

providing more balls of solder than there are holes over the surface;

another effective to deposit one ball of solder into each hole;

bonding the balls which were deposited into the holes to individual bond pads positioned on a substrate proximate the holes, wherein [the] bonding [of the balls] comprises laser bonding the balls by moving each ball into the path of a laser beam.